

```
$%^Other,HighlightOn=**,HighlightOff=**;  
Trying 01082...Open
```

```
PLEASE ENTER HOST PORT ID:
PLEASE ENTER HOST PORT ID:x
LOGINID:d185jfr
PASSWORD:
TERMINAL (ENTER 1, 2, 3, 4, OR ?): 3
```

[illegible]

=> s shigella

L1 2148 SHIGELLA

=> s mammal?

L2 50835 MAMMAL?

=> s l1(p)l2

L3 126 L1(P)L2

=> s entry or entered or enter

169942 ENTRY
101729 ENTERED
240962 ENTER

L4 398399 ENTRY OR ENTERED OR ENTER

=> s l4(p)l3

L5 3 L4(P)L3

=> s aspartate(4a)dehydrogenase

4164 ASPARTATE
7293 DEHYDROGENASE

L6 145 ASPARTATE(4A)DEHYDROGENASE

=> s l1 and l6

L7 10 L1 AND L6

=> d

1. 5,922,583, Jul. 13, 1999, Methods for production of recombinant plasmids; Mohamad A. Morsey, 435/69.1, 91.1, 91.4, 183, 252.3, 252.33, 320.1, 325; 536/23.1, 23.7 [IMAGE AVAILABLE]

=> d his

(FILE 'USPAT' ENTERED AT 11:10:01 ON 15 JUL 1999)

L1 2148 S SHIGELLA
L2 50835 S MAMMAL?
L3 126 S L1(P)L2
L4 398399 S ENTRY OR ENTERED OR ENTER
L5 3 S L4(P)L3
L6 145 S ASPARTATE(4A)DEHYDROGENASE
L7 10 S L1 AND L6

=> s vaccine

L8 5897 VACCINE

=> s l1 and l2

L9 741 L1 AND L2

=> s aspartate

L10 4164 ASPARTATE

=> s l9 and l10

L11 44 L9 AND L10

=> s asd

L12 449 ASD

=> s l8 and l1

L13 241 L8 AND L1

=> s dap

L14 1739 DAP

=> s l13 and l14

L15 15 L13 AND L14

=> s asd

L16 449 ASD

=> s l15 and l16

L17 11 L15 AND L16

=> d 1-11

1. 5,922,583, Jul. 13, 1999, Methods for production of recombinant plasmids; Mohamad A. Morsey, 435/69.1, 91.1, 91.4, 183, 252.3, 252.33, 320.1, 325; 536/23.1, 23.7 [IMAGE AVAILABLE]

2. 5,877,159, Mar. 2, 1999, Method for introducing and expressing genes in animal cells and live invasive bacterial vectors for use in the same; Robert J. Powell, et al., 514/44; 424/93.1, 93.21, 93.4, 184.1; 435/69.1, 235.1, 320.1, 472, 480; 536/24.1 [IMAGE AVAILABLE]

3. 5,855,880, Jan. 5, 1999, Avirulent microbes and uses therefor; Roy Curtiss, III, et al., 424/93.2, 93.48, 184.1, 200.1, 235.1, 257.1, 258.1; 435/252.3, 252.33, 320.1, 879 [IMAGE AVAILABLE]

4. 5,855,879, Jan. 5, 1999, Avirulent microbes and uses therefor; Roy Curtiss III, 424/93.2, 93.48, 184.1, 200.1, 235.1, 257.1, 258.1; 435/252.3, 252.33, 320.1, 879 [IMAGE AVAILABLE]

5. 5,840,483, Nov. 24, 1998, Method of maintaining a desired recombinant gene in a genetic population of cells; Roy Curtiss, III, 435/6, 252.3, 252.33, 320.1 [IMAGE AVAILABLE]

6. 5,824,538, Oct. 20, 1998, **Shigella** vector for delivering DNA to a mammalian cell; Arthur A. Branstrom, et al., 435/252.1; 424/93.2; 435/245, 252.3, 455, 822 [IMAGE AVAILABLE]

7. 5,672,345, Sep. 30, 1997, Selective maintenance of a recombinant gene in a population of **vaccine** cells; Roy Curtiss, III, 424/93.2; 435/69.1, 71.2, 252.3 [IMAGE AVAILABLE]

8. 5,424,065, Jun. 13, 1995, Vaccines containing avirulent phop-type microorganisms; Roy Curtiss, III, et al., 424/93.2, 93.48, 184.1; 435/69.1, 71.1, 252.3, 252.8 [IMAGE AVAILABLE]

9. 5,387,744, Feb. 7, 1995, Avirulent microbes and uses therefor: *Salmonella typhi*; Roy Curtiss, III, et al., 424/258.1; 435/252.3, 252.33, 320.1, 879 [IMAGE AVAILABLE]

10. 5,294,441, Mar. 15, 1994, Avirulent microbes and uses therefor: *salmonella typhi*; Roy Curtiss, III, 424/200.1, 235.1, 258.1; 435/252.3,

252.33, 320.1, 879 [IMAGE AVAILABLE]

11. 4,888,170, Dec. 19, 1989, Vaccines obtained from antigenic gene products of recombinant genes; Roy Curtiss, III, 424/200.1, 244.1, 258.1; 435/252.3, 252.8 [IMAGE AVAILABLE]

=> s invasive

L18 10931 INVASIVE

=> d his

(FILE 'USPAT' ENTERED AT 11:10:01 ON 15 JUL 1999)

L1 2148 S SHIGELLA
 L2 50835 S MAMMAL?
 L3 126 S L1(P)L2
 L4 398399 S ENTRY OR ENTERED OR ENTER
 L5 3 S L4(P)L3
 L6 145 S ASPARTATE(4A)DEHYDROGENASE
 L7 10 S L1 AND L6
 L8 5897 S VACCINE
 L9 741 S L1 AND L2
 L10 4164 S ASPARTATE
 L11 44 S L9 AND L10
 L12 449 S ASD
 L13 241 S L8 AND L1
 L14 1739 S DAP
 L15 15 S L13 AND L14
 L16 449 S ASD
 L17 11 S L15 AND L16
 L18 10931 S INVASIVE

=> s l1 and l18 and l8

L19 64 L1 AND L18 AND L8

=> s l19 and l14

L20 10 L19 AND L14

=> s l20 and l16

L21 8 L20 AND L16

=> d 1-8

1. 5,877,159, Mar. 2, 1999, Method for introducing and expressing genes in animal cells and live ****invasive**** bacterial vectors for use in the same; Robert J. Powell, et al., 514/44; 424/93.1, 93.21, 93.4, 184.1; 435/69.1, 235.1, 320.1, 472, 480; 536/24.1 [IMAGE AVAILABLE]

2. 5,855,880, Jan. 5, 1999, Avirulent microbes and uses therefor; Roy Curtiss, III, et al., 424/93.2, 93.48, 184.1, 200.1, 235.1, 257.1, 258.1; 435/252.3, 252.33, 320.1, 879 [IMAGE AVAILABLE]

3. 5,855,879, Jan. 5, 1999, Avirulent microbes and uses therefor; Roy Curtiss III, 424/93.2, 93.48, 184.1, 200.1, 235.1, 257.1, 258.1; 435/252.3, 252.33, 320.1, 879 [IMAGE AVAILABLE]

4. 5,824,538, Oct. 20, 1998, ****Shigella**** vector for delivering DNA to a mammalian cell; Arthur A. Branstrom, et al., 435/252.1; 424/93.2; 435/245, 252.3, 455, 822 [IMAGE AVAILABLE]

5. 5,424,065, Jun. 13, 1995, Vaccines containing avirulent phop-type microorganisms; Roy Curtiss, III, et al., 424/93.2, 93.48, 184.1; 435/69.1, 71.1, 252.3, 252.8 [IMAGE AVAILABLE]

6. 5,387,744, Feb. 7, 1995, Avirulent microbes and uses therefor:
Salmonella typhi; Roy Curtiss, III, et al., 424/258.1; 435/252.3, 252.33,
320.1, 879 [IMAGE AVAILABLE]

7. 5,294,441, Mar. 15, 1994, Avirulent microbes and uses therefor:
salmonella typhi; Roy Curtiss, III, 424/200.1, 235.1, 258.1; 435/252.3,
252.33, 320.1, 879 [IMAGE AVAILABLE]

8. 4,888,170, Dec. 19, 1989, Vaccines obtained from antigenic gene
products of recombinant genes; Roy Curtiss, III, 424/200.1, 244.1, 258.1;
435/252.3, 252.8 [IMAGE AVAILABLE]

=> d his

(FILE 'USPAT' ENTERED AT 11:10:01 ON 15 JUL 1999)

L1 2148 S SHIGELLA
L2 50835 S MAMMAL?
L3 126 S L1(P)L2
L4 398399 S ENTRY OR ENTERED OR ENTER
L5 3 S L4(P)L3
L6 145 S ASPARTATE(4A)DEHYDROGENASE
L7 10 S L1 AND L6
L8 5897 S VACCINE
L9 741 S L1 AND L2
L10 4164 S ASPARTATE
L11 44 S L9 AND L10
L12 449 S ASD
L13 241 S L8 AND L1
L14 1739 S DAP
L15 15 S L13 AND L14
L16 449 S ASD
L17 11 S L15 AND L16
L18 10931 S INVASIVE
L19 64 S L1 AND L18 AND L8
L20 10 S L19 AND L14
L21 8 S L20 AND L16

=> logoff y

U.S. Patent & Trademark Office LOGOFF AT 11:21:15 ON 15 JUL 1999